

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (Currently amended) A method for mirroring data comprising:
 - receiving at a first storage server a data access request from a client coupled to the first storage server;
 - writing the data access request to a first portion of a non-volatile storage device in the first storage server;
 - transmitting the data access request from the first storage server to a second storage server to be written to a ~~memory~~ mass storage device on the second storage server; and
 - when the first portion of the non-volatile storage device in the first storage server is full, causing the second storage server to transfer the data access request from the ~~memory~~ mass storage device on the second storage server to a data container corresponding to the first storage server on the second storage server.
2. (Canceled)
3. (Currently amended) The method of claim 1, wherein causing the second storage server to transfer the data access request from the ~~memory~~ mass storage device to the data container comprises:

sending a synchronization request at to the second storage server from the first storage server.

4. (Currently amended) The method of claim 1, further comprising:

sending an acknowledgement from the second storage server to the first storage server in response to receiving the data access request to cause the first storage server to send a response to the client after the data access request has been stored on the first storage server and stored in the ~~memory~~ mass storage device on the second storage server.

5. (Canceled).

6. (Currently amended) The method of claim 1, further comprising:

writing the data access request to a first portion of the ~~memory~~ mass storage device on the second storage server, the first portion of the ~~memory~~ mass storage device on the second storage server being associated with the first portion of the non-volatile storage device in the first storage server.

7. (Previously presented) The method of claim 1, wherein the data access request is transmitted from the first storage server to the second storage server over a network.

8. (Previously presented) The method of claim 1, further comprising:

assigning a sequence number to the data access request, wherein the sequence number designates a position of the data access request in a group of data access requests to ensure that the data access request is properly ordered within the data container.

9. (Original) The method of claim 1, wherein the data container is a file.

10. (Currently amended) An apparatus comprising:

a destination storage server to mirror data stored by a source storage server;
a network interface on the destination storage server coupled to the source storage server, the network interface to receive a data access request from a client coupled to the source storage server, wherein the source storage server has written the data access request in a first portion of a non-volatile storage device in the source storage server, wherein the destination storage server is configured to write the data access request to a data container corresponding to the source storage server; and
a ~~memory~~ mass storage device on the destination storage server to receive the data access request, wherein the data access request is transferred to a nonvolatile mass storage device coupled to the destination storage server when the first portion of the non-volatile storage device in the source storage server is full.

11. (Canceled).

12. (Previously presented)The apparatus of claim 10, wherein the network comprises a Transmission Control Protocol/Internet Protocol (TCP/IP) network.

13. (Canceled).

14. (Currently amended) The apparatus of claim 10, wherein the memory destination storage server comprises a nonvolatile random access memory (NVRAM).

15. (Currently amended) The apparatus of claim 10, wherein the destination storage server modifies an image of a volume maintained by the source storage server on the a ~~second~~ nonvolatile mass storage device coupled to the destination storage server according to the access request when the source storage server makes a synchronization request.

16. (Original) The apparatus of claim 10, wherein the data container is a file.

17. (Previously presented)A method comprising:

receiving a data access request at a destination filer from a source filer, wherein the data access request is written to a first memory coupled to the source filer;

sending an acknowledgement to the source filer in response to the destination filer receiving the data access request;

writing the data access request to a second memory coupled to the destination filer;

transferring the data access request from the second memory to a file corresponding to the source filer on a volume coupled to the destination filer; and removing the data access request from the second memory after transferring the data access request to the file;

receiving a second data access request from a second source filer, wherein the second data access request is written to a third memory coupled to the second source filer;

sending a second acknowledgement to the second source filer in response to the destination filer receiving the second data access request;

writing the second data access request to the second memory;

transferring the second data access request to a second file corresponding to the second source filer on the volume coupled to the destination filer; and

removing the second data access request from the second memory after transferring the second access request to the volume.

18. (Canceled)

19. (Previously presented) The method of claim 17, further comprising connecting the second source filer to the client in response to a system failure.

20. (Previously presented) The method of claim 17, further comprising:

applying the access request to an image of a volume maintained by the source filer; and

allowing the client to access the image.

Atty Dkt. No.: P01-1684/5693.P029
Response to Office Action mailed June 28, 2006
Amendment dated 8/28/2006

7

10/692,495